

## ABSTRACT

### AN OPTICAL COUPLING MOUNT

5 An optical coupling mount for use in coupling light between a semiconductor waveguide device and an optical fibre comprises a silica based spot size converter (3) located on an optical bench (1) with a trench (8) and grooves (9), whereby the semiconductor device (2) can be positioned in close alignment with the spot size converter (3). The spot size converter (3) comprises a tapered upper waveguide (4) located above a non-tapered lower waveguide (6). The dimensions of the spot size converter (3) are  
10 such that a semiconductor device emitting a small, astigmatic optical beam can be efficiently coupled to a single mode fibre requiring a larger, concentric beam.

[Figure 1]

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